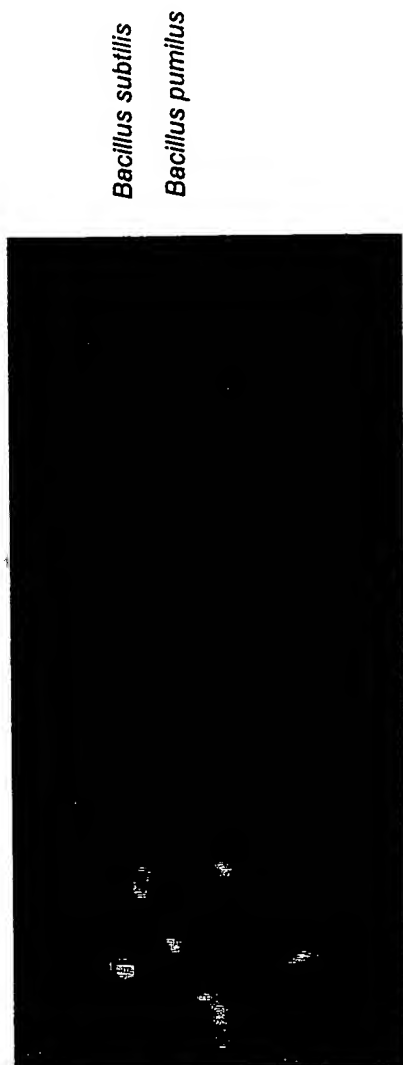




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REPLACEMENT SHEET

Fluorescence Chemical Imaging of *Bacillus Pumilus* and *Bacillus Subtilis* Mixture



Bacillus subtilis
Bacillus pumilus

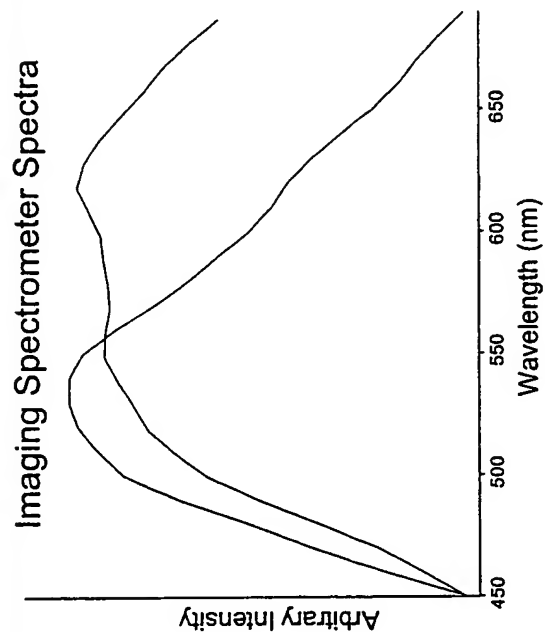
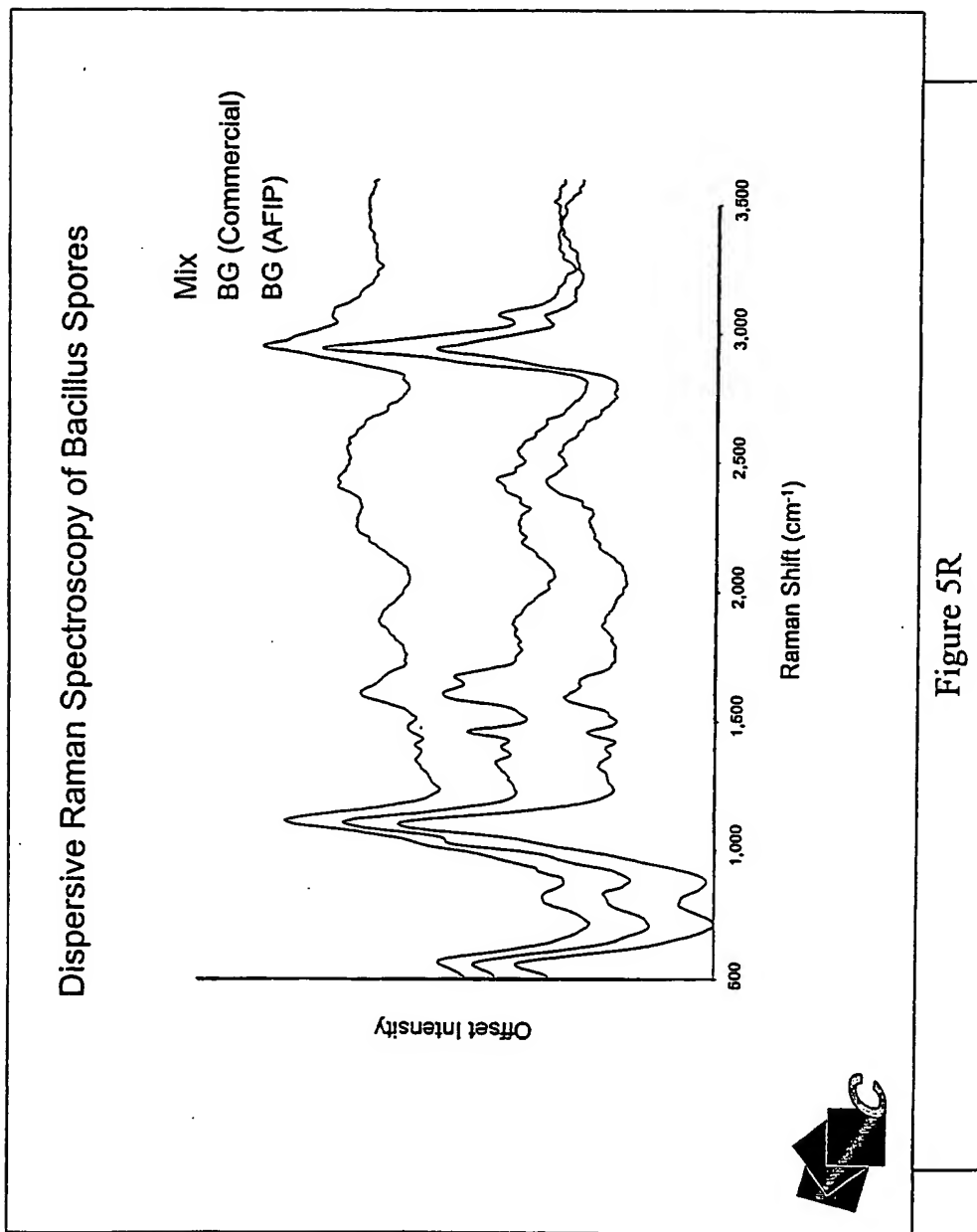


Figure 4



Raman Chemical Imaging of Bacillus Subtilis Spore Mixture
BG (AFIP) and BG (Commercial)

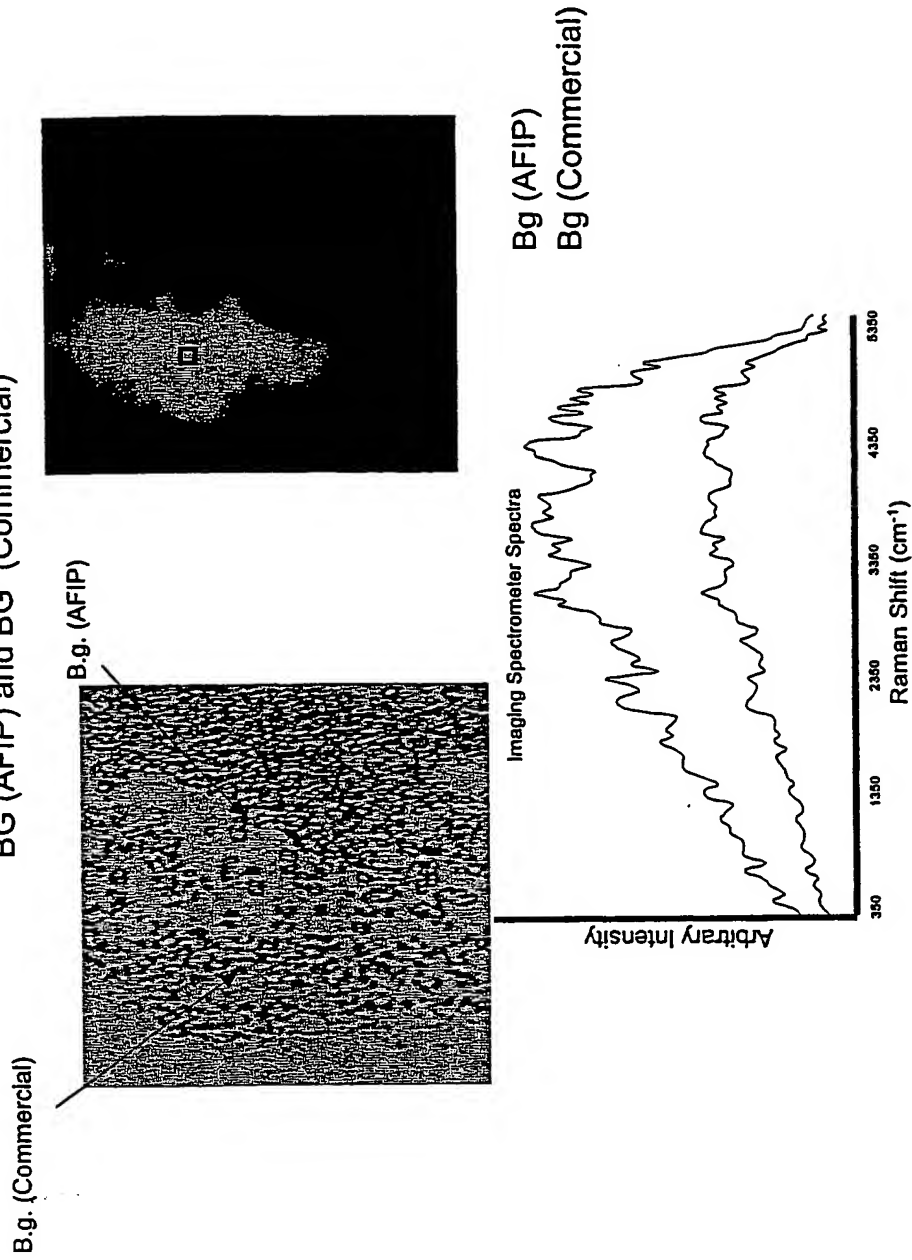
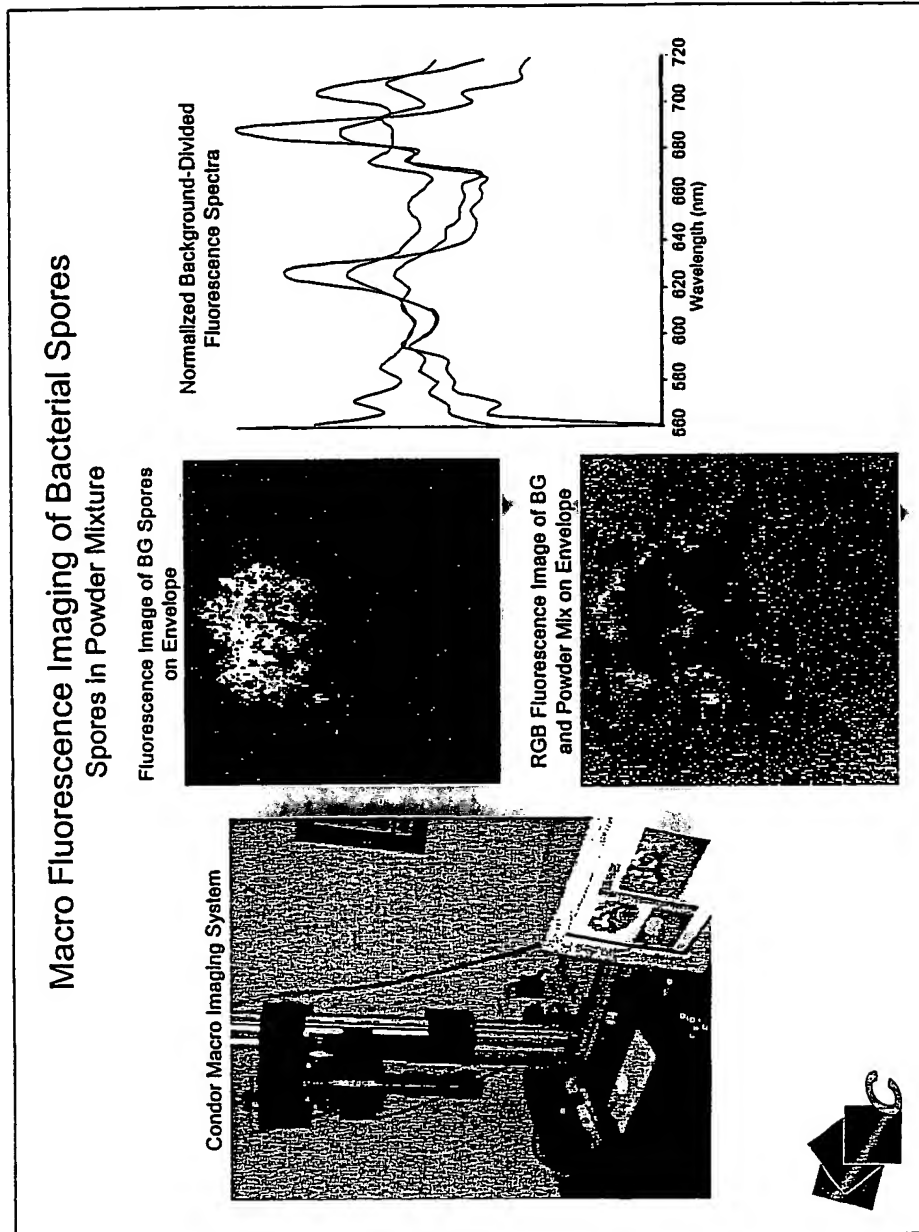


Figure 5S



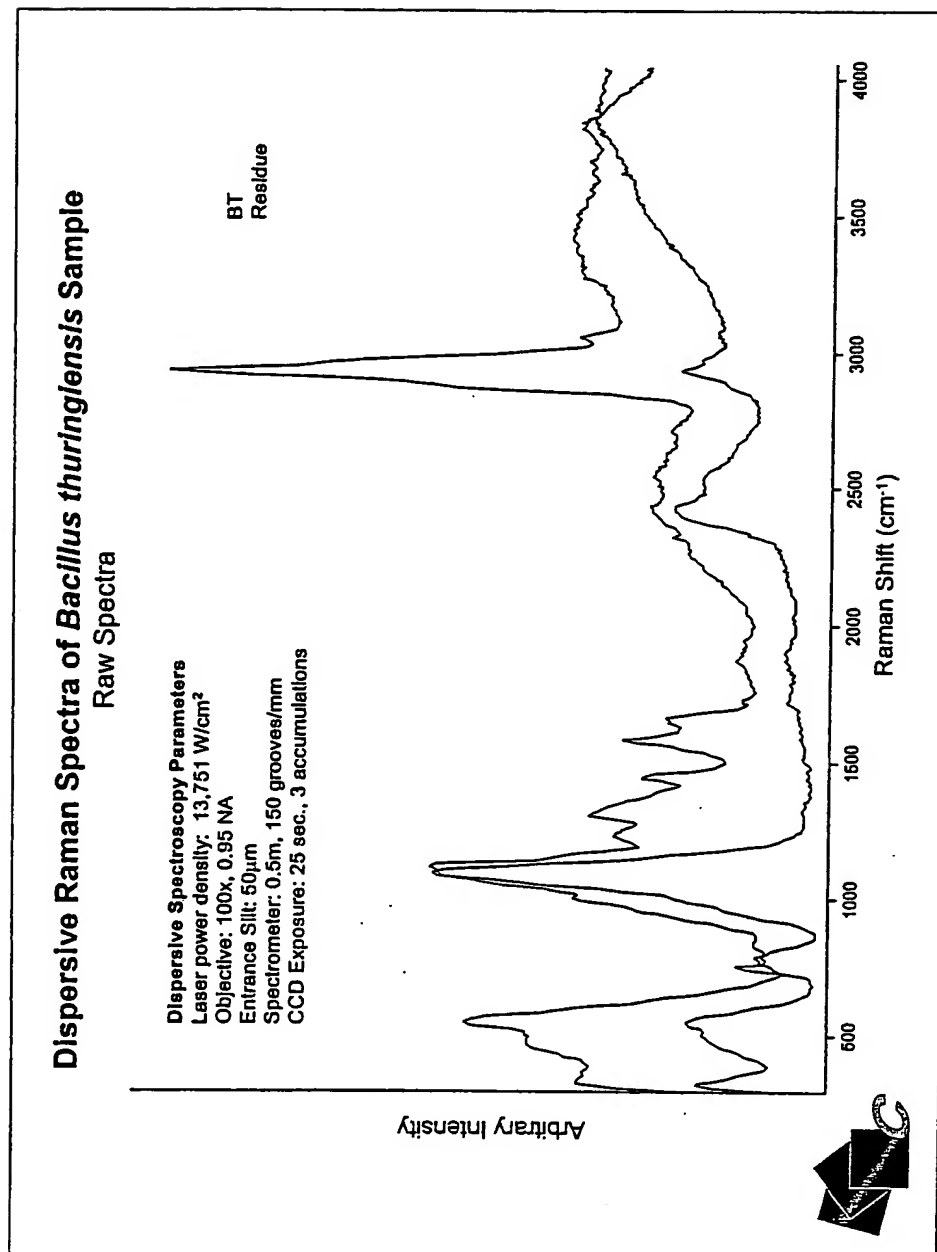


Figure 6A

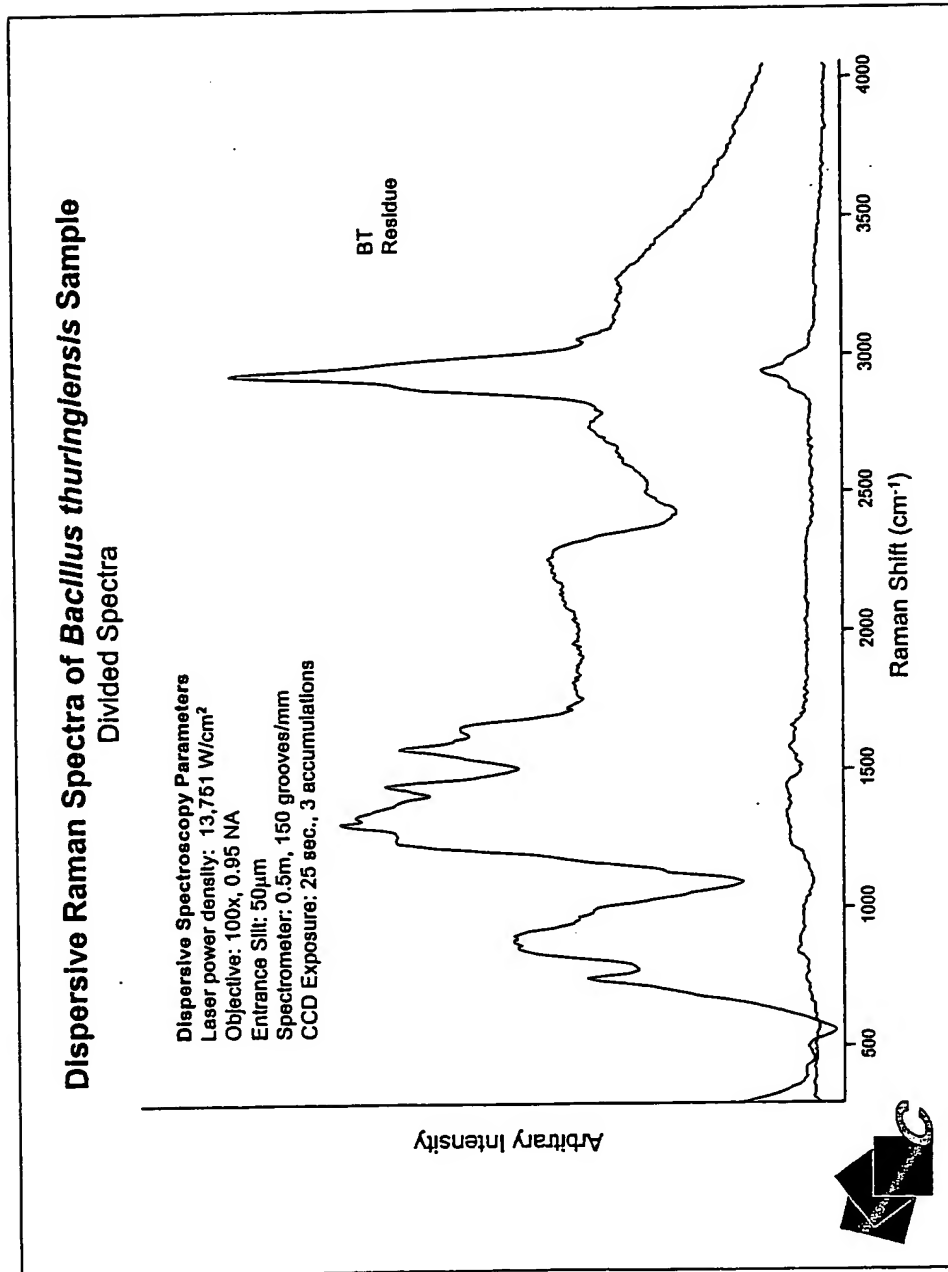
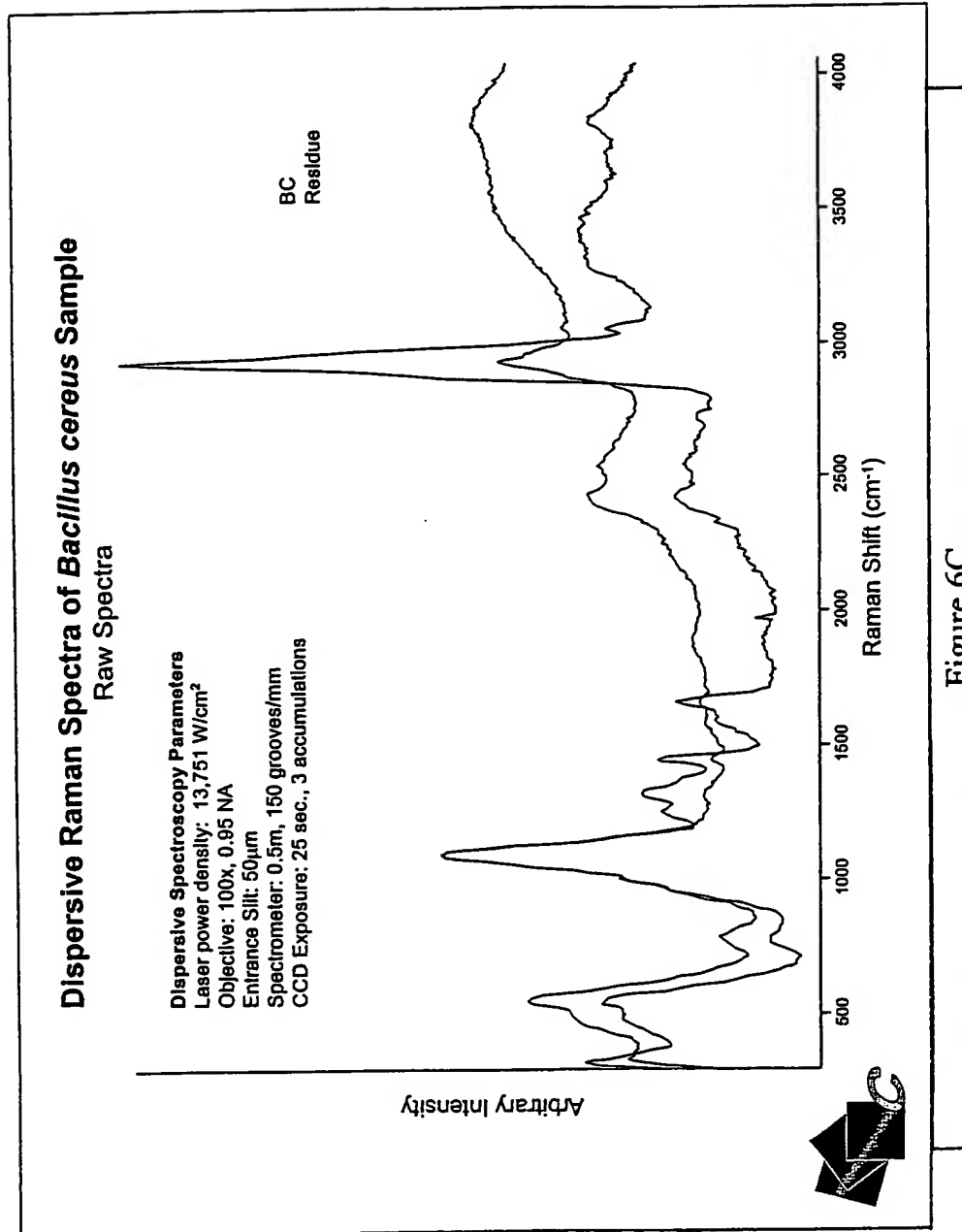


Figure 6B



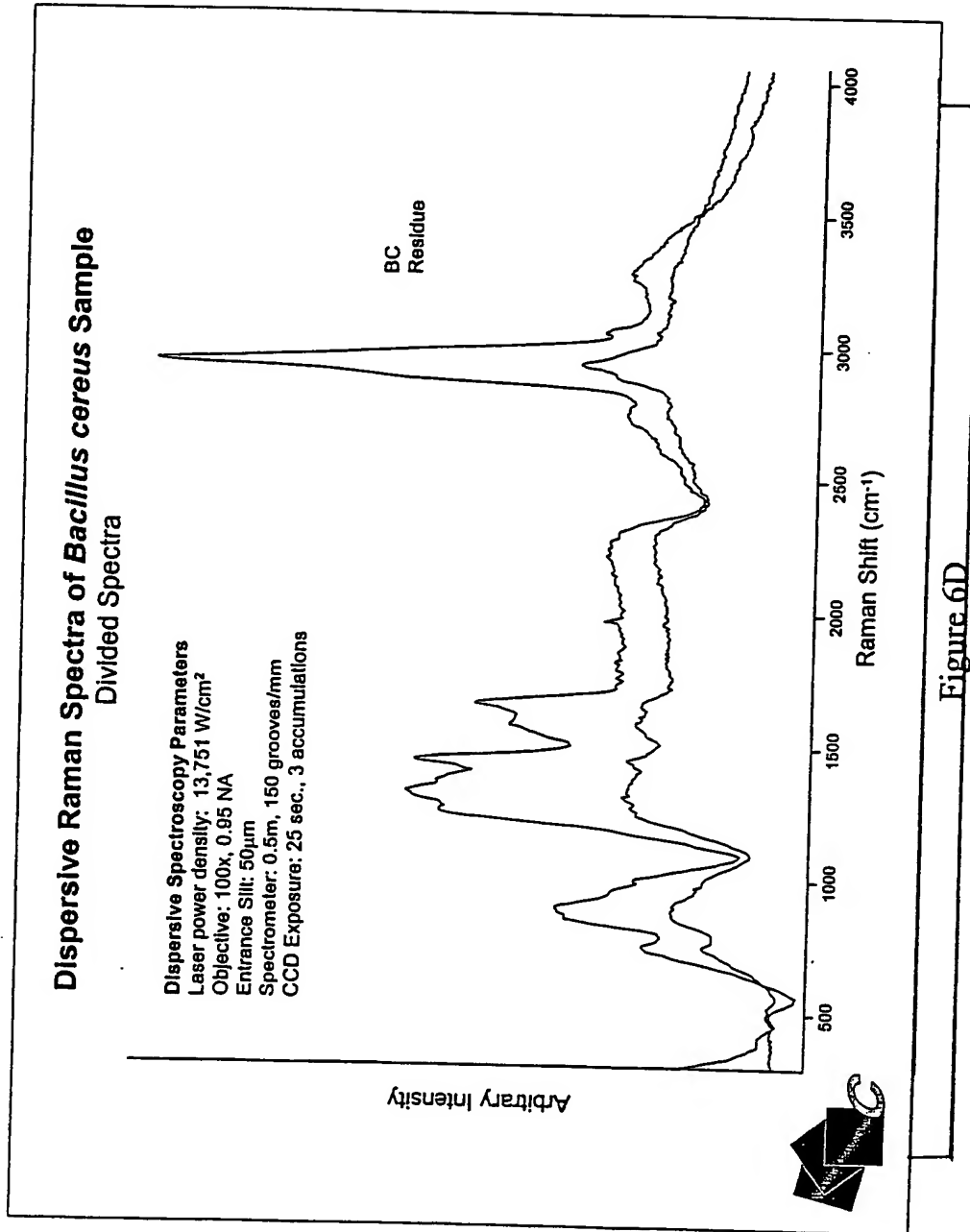
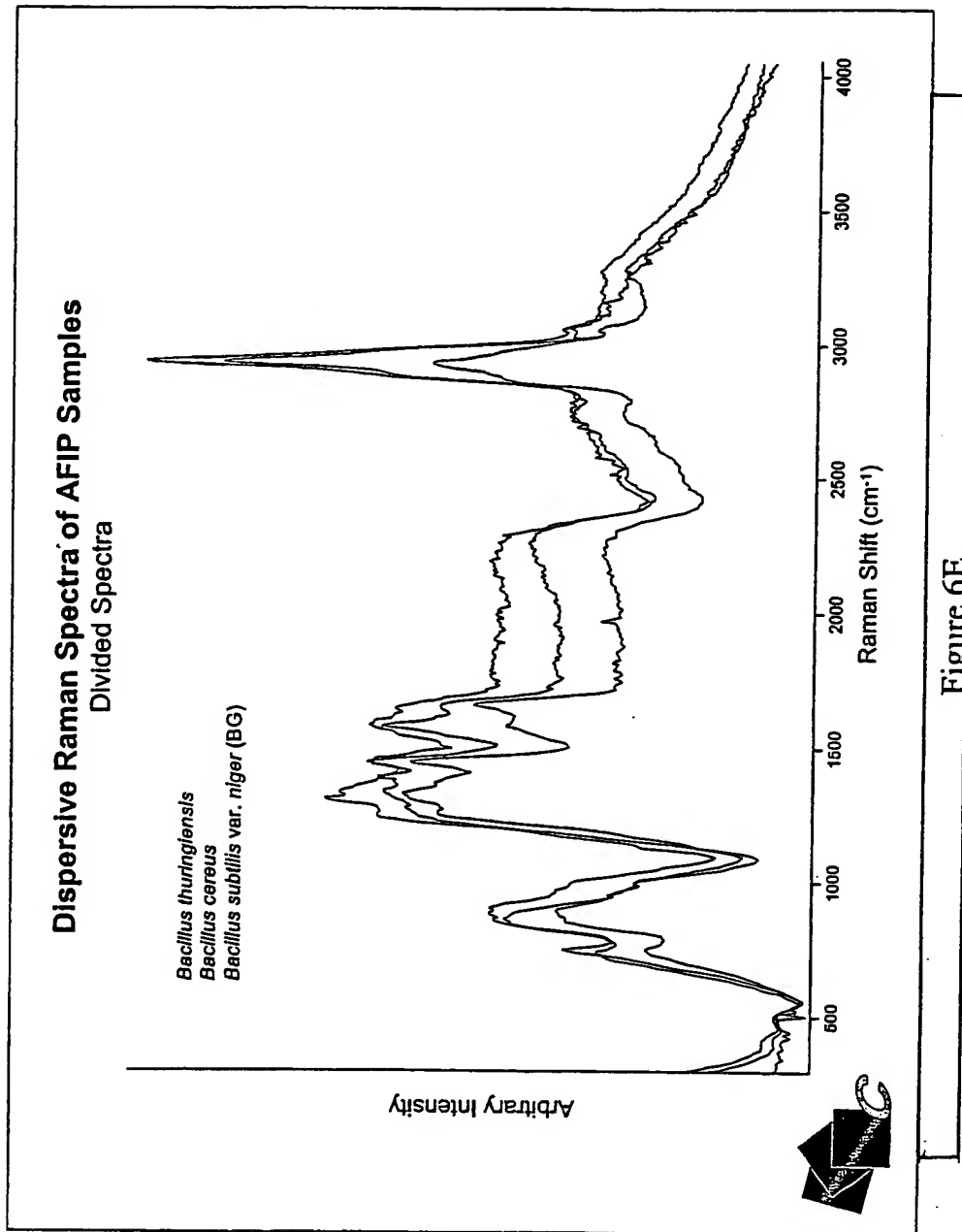
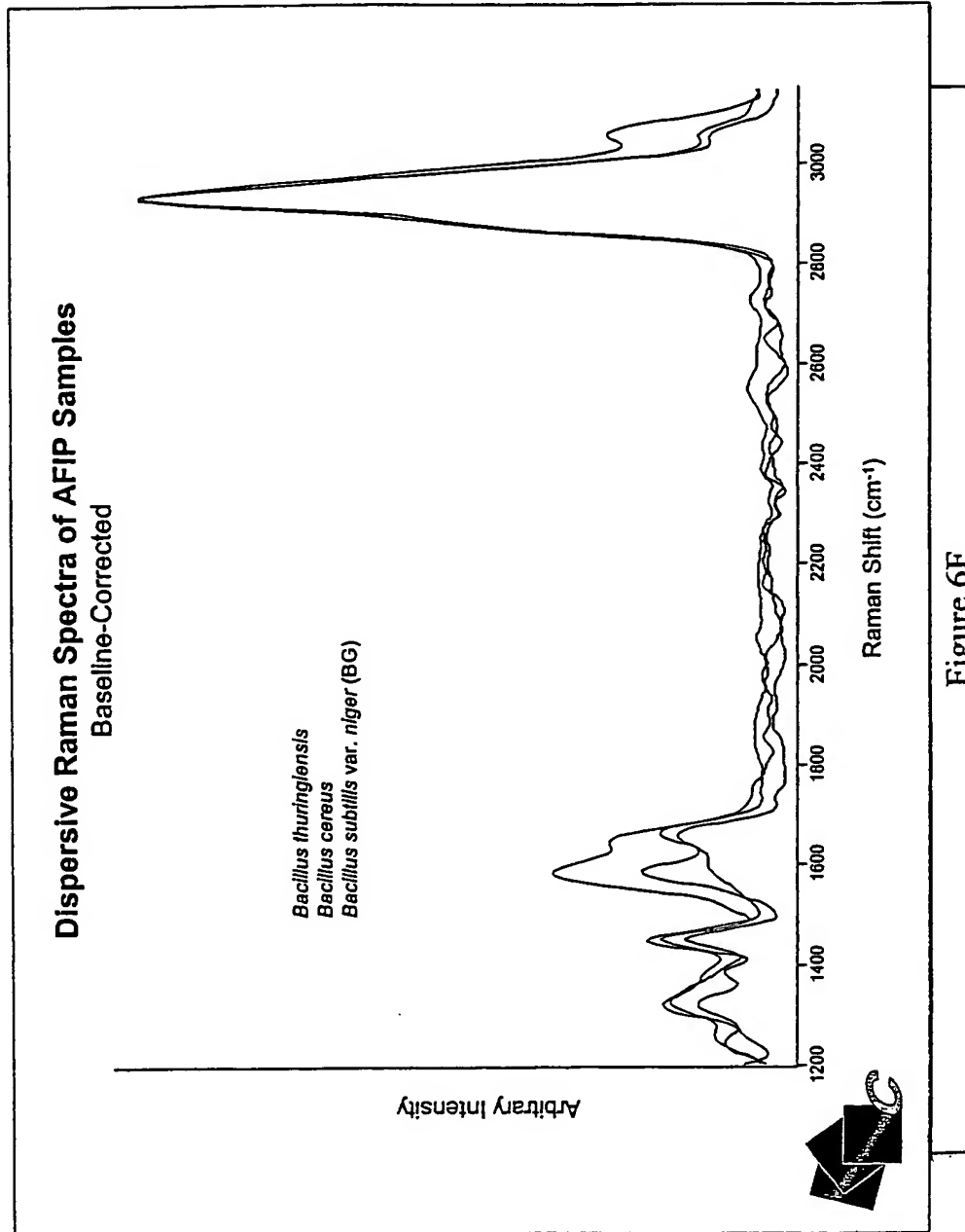


Figure 6D





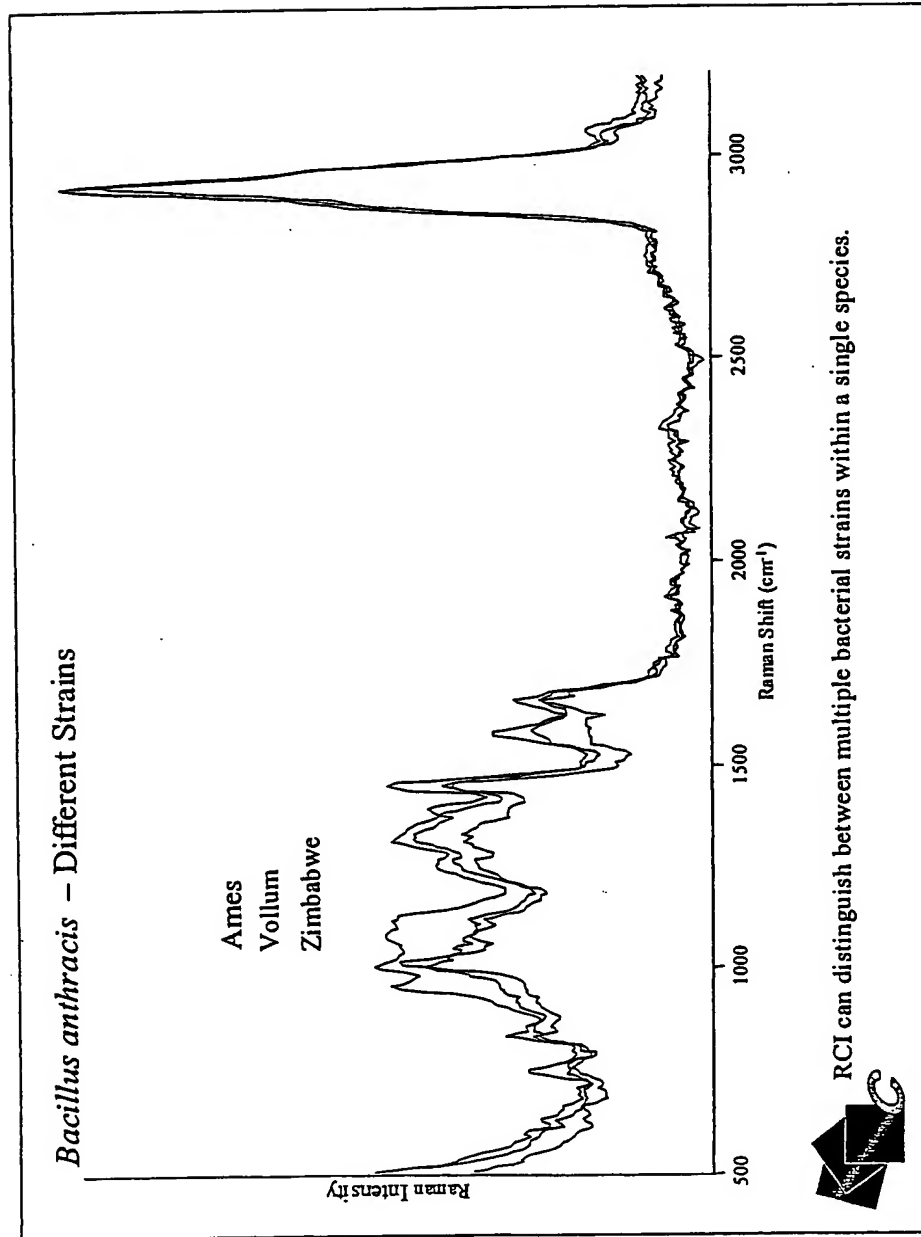


Figure 7

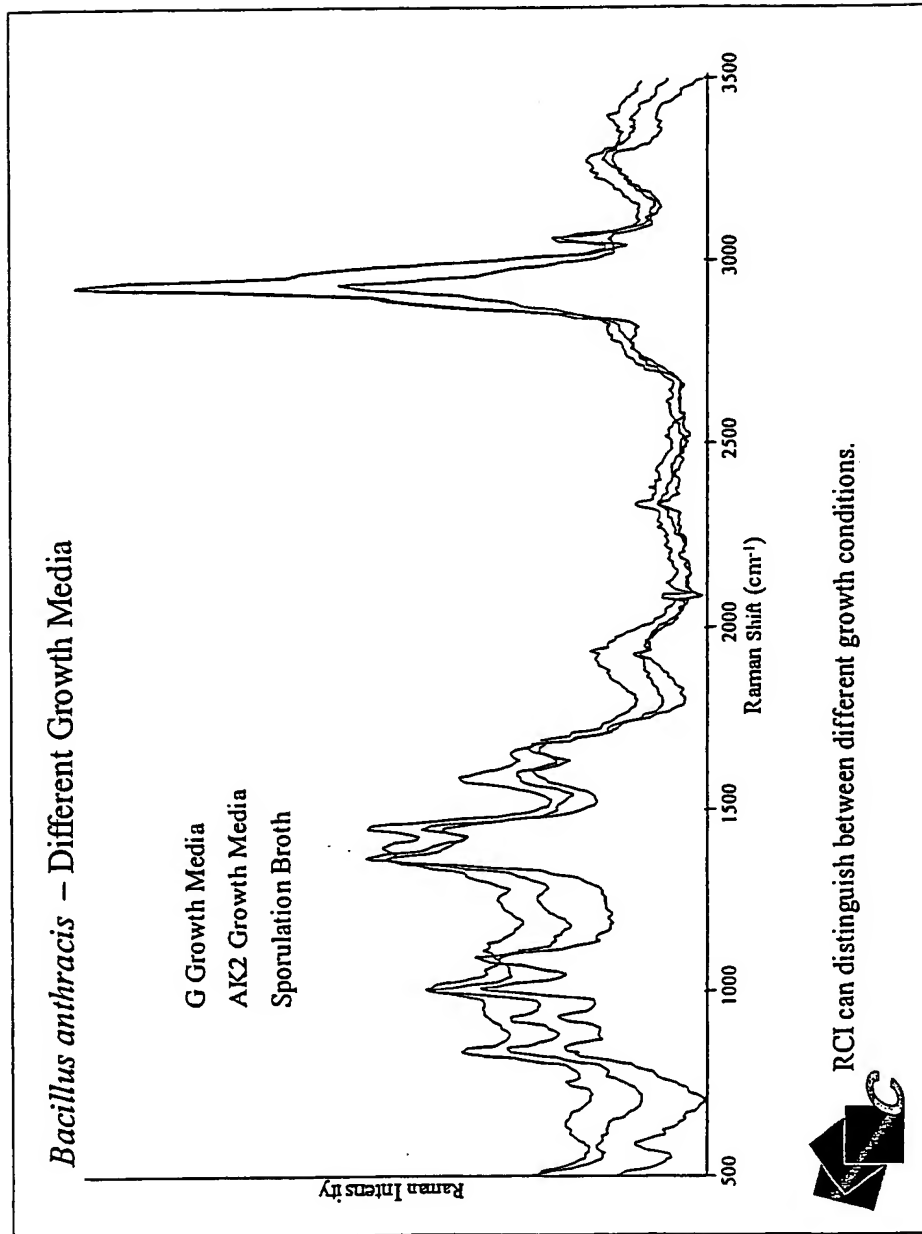
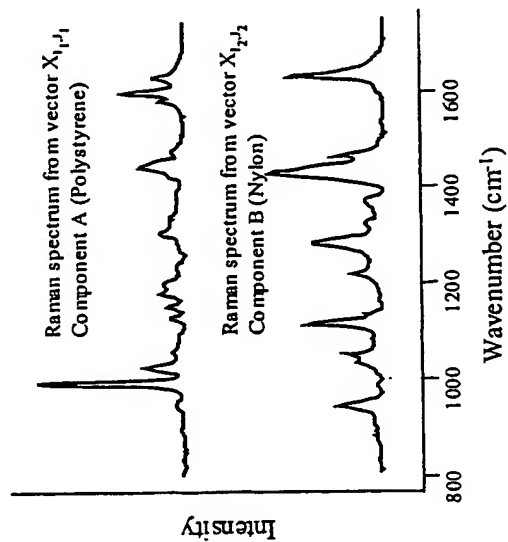
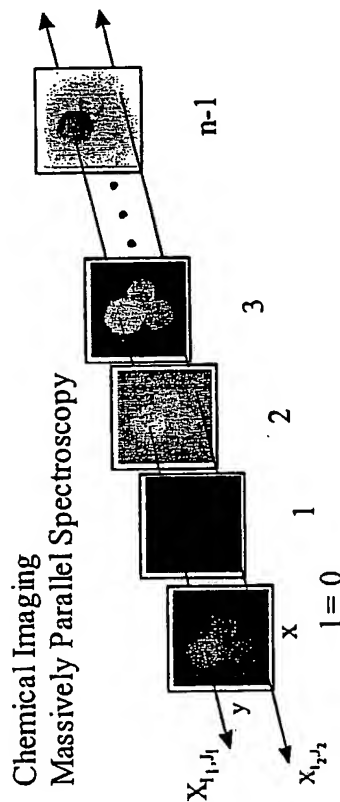
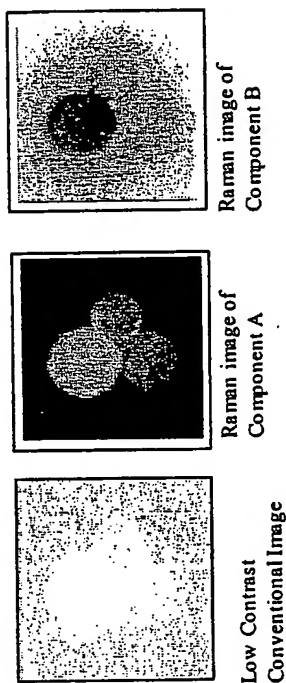


Figure 8

Why Chemical Imaging?

- Fast
- Minimally invasive
- High information content
- Spectroscopy provides fingerprint for material



RCI reveals molecular-specific contrast in complex mixtures without the use of dyes or stains.



Figure 9

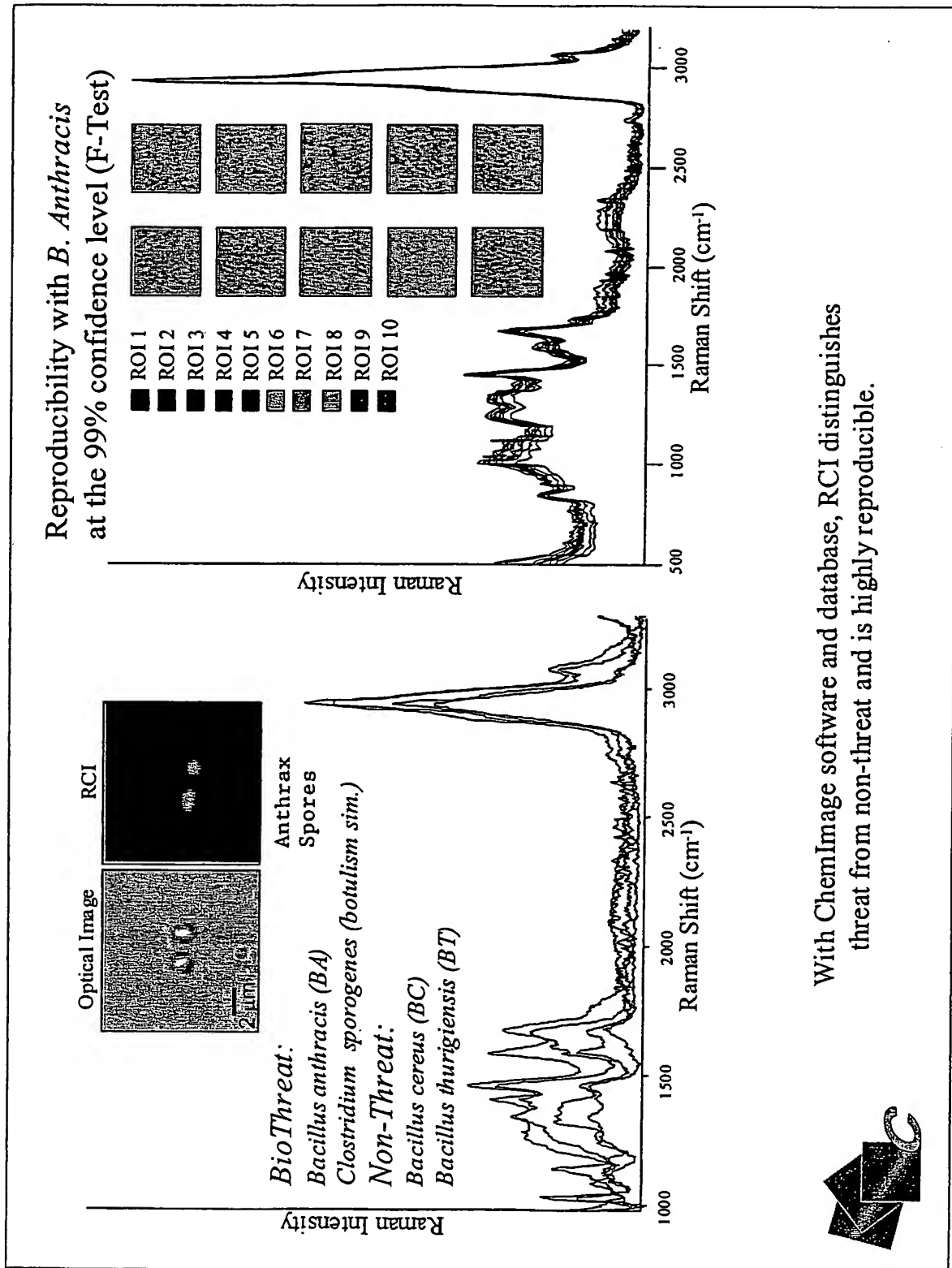


Figure 10

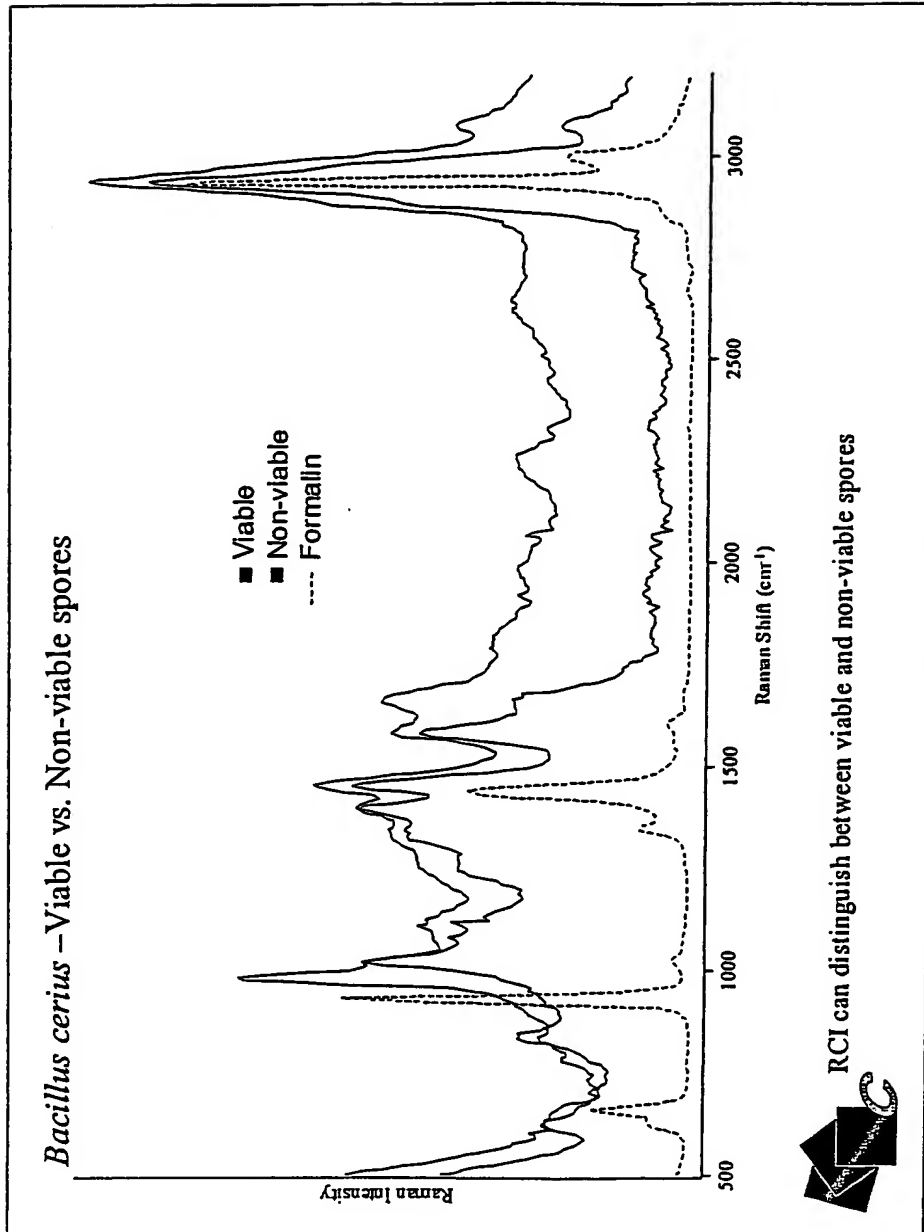


Figure 11